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L3	6254	tran.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L4	5681	cameron.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L5	75	L3 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L6	12296	shen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L7	68	L6 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L8	46917	jones.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L9	17	L7 and L8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L10	68	L4 and L8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L16	21	L4 and L15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L18	2	"EP 986181"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L20	3	GHAZVINIAN.in. and HINEDI.in. and GRIEP.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L34	342	(carrier adj recovery) and reliability	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L35	0	(carrier adj recovery) with reliability with symbol\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L36	5	(carrier adj recovery) with reliability and symbol\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L37	2	("5363408" "5471508").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/13 07:13
L38	18	(carrier adj recovery) with (low adj (c/n or snr or s/n or (signal adj to adj noise adj ratio)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13

L39	6	(carrier adj recovery) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L40	6	(carrier adj (recovery or synchronization)) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L41	0	(carrier adj synchronization) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L42	671	(carrier adj synchronization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L43	48	(carrier adj synchronization) and soft adj decision	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L44	40	(carrier near synchronization) and (soft adj decision) and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L45	0	(carrier near synchronization) with (soft adj decision) and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L46	20	(carrier near synchronization) and (soft adj decision) with viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L47	1	zero adj trace adj back adj viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:24
L48	50	(carrier adj recovery) and (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13

L49	48	(carrier adj recovery) and (turbo adj code\$1) and symbol	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L50	2	375/741	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L51	2106	375/341	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L52	3417	carrier adj (recovery or synchronization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L53	2337	turbo adj code\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L54	123	L51 and L52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L55	11	L54 and L53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L96	0	L95 and L89	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L97	1382	jaffe.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L101	342	(carrier adj recovery) and reliability	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L102	0	(carrier adj recovery) with reliability with symbol\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L103	6	(carrier adj (recovery or synchronization)) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L104	0	(carrier adj synchronization) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13

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L106	40	(carrier near synchronization) and (soft adj decision) and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L107	0	(carrier near synchronization) with (soft adj decision) and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L110	2106	375/341	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L111	3417	carrier adj (recovery or synchronization)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L112	2337	turbo adj code\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L113	123	L110 and L111	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L114	1303	375/326	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13

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L117	382	455/119	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L118	0	L115 and L117	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L119	395	375/240.28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L124	1	L123 and L115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13

L125	1523	375/344	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L128	286	348/735	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L129	0	L128 and L115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L133	1	L126 and L115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L134	17	L92 and L93	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L135	68	L89 and L93	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L137	21	L89 and L97	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L152	2	("5363408" "5471508").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/13 07:13
L153	18	(carrier adj recovery) with (low adj (c/n or snr or s/n or (signal adj to adj noise adj ratio)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L154	6	(carrier adj recovery) with (turbo adj code\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L155	48	(carrier adj synchronization) and soft adj decision	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L156	20	(carrier near synchronization) and (soft adj decision) with viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L157	48	(carrier adj recovery) and (turbo adj code\$1) and symbol	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L159	3	L114 and L115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
L160	5	L116 and L115	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:13
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L163	10	(carrier adj recovery) with viterbi	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 07:13
L164	1	(carrier adj recovery) with viterbi and turbo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 07:13
L165	2	viterbi with independent with turbo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 07:13
L166	21	viterbi with different with turbo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 07:13
L167	214	langlais.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:32

L168	0	langlais.in. and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:08
L169	17	carrier adj recovery AND synchronization AND ((tentative adj decisions) or viterbi) AND turbo adj code	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 07:42
L170	5	helard.in. and viterbi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:07
L171	3	helard.in. and turbo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:07
L172	1	langlais.in. and turbo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:08
L173	0	lanoiselee.in. and turbo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:08
L174	4125	(reference adj frequency).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:24
L175	1	((reference adj frequency) and viterbi and turbo).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:25
L176	1	((reference adj frequency) and (viterbi or tentative) and turbo). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 08:25

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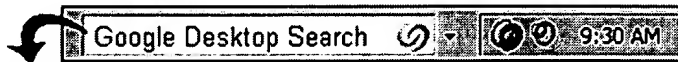
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...between this recursion and the **Viterbi** recursion of (4). We see...recursion can be derived from **Viterbi** recursion by simply replacing...error detector. Unlike the **Viterbi** algorithm, which produces...most likely symbols. The **Turbo** Principle Although the quantization...estimation, timing recover, and **carrier recovery**. For example, suppose the...a induced by the channel **code**, it can produce a better...
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...12] for coded systems based on iterative (**turbo**) processing. In this paper, we propose a new...information bits are encoded using some channel **code**, resulting in a **code** bit stream. The **code** bits are passed to a symbol mapper, yielding...

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PIERZGA, Wayne, Francis / GUINAND, Paul, Scott / LODGE, John, Harrison / CROZIER, Stewart, Newman / YOUNG, Richard, John / Inmarsat Ltd., EUROPEAN PATENT, Oct 1997

...and so on, to a total of 42 bits. The ensemble plan data is prefixed by a so- call "unique word", being a low autocorrelation **code** word uniquely recognisable by the decoder for example, a 32 bit word. Prior to the frame which precedes the start of the next...

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PIERZGA, Wayne, Francis / GUINAND, Paul, Scott / LODGE, John, Harrison / CROZIER, Stewart, Newman / YOUNG, Richard, John / INTERNATIONAL MOBILE SATELLITE ORGANIZATION, PATENT COOPERATION TREATY APPLICATION, Jun 1996

...interleaved signal. Such signals are generally coarsely quantized to a few levels (e.g. eight or nine levels) prior to decoding (e.g. **Viterbi** decoding) . It is desirable to control the range of the quantizer to match the average range of the received samples.

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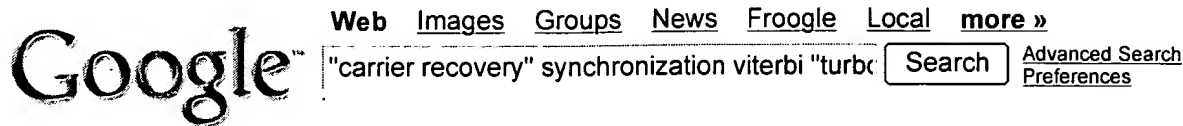
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





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Turbo Codes in Digital Broadcasting - Could It Double Capacity? (Ref. No. 1999/165), IE Colloquium on
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- ☐ 5. **Defining performance limits for turbo-code assisted synchronization in DVB-S sys**
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